

Expert Talk - Technical Textiles - Future Trends in Synthetic Fibres, Carpets & Non-Wovens

Name and designation of the Guest Speakers/ Judges/ Mentors etc.:

1. Mr. Amar Surve - DGM, ATE Group Ltd., Mumbai

Venue: Seminar Hall, C-Wing, MPSTME Shirpur campus

Start Date: September 26, 2024

End Date: September 26, 2024

Time: 10:00 AM– 01:00 PM on September 26.

Duration of the activity (in Hrs): 03 hours

Link of social media post of e-pamphlet:

<https://www.instagram.com/p/DAVhjN7PuKx/?igsh=cHM5dndxNmtrc3Ny>

Link for social media post of video:

https://youtu.be/7ftWKDQJ_Aw?si=N3fTudETMNSCWV-H&t=124

Program Type: Level 1- Workshop on “Entrepreneurship and Innovation” as Career Opportunity.

Objective of the activity (100 characters):

Expert Talk on Technical Textiles: Future Trends, industry insights, and student engagement for skill enhancement.

Benefit in terms of learning, skills, knowledge obtained (150 characters):

Inspires and motivates students, offers expert mentoring, and showcases innovative business strategies and prototypes from diverse innovators.

SVKM's NMIMS Faculty Coordinators for the activity:

1. Dr. Tushar A. Shinde, Assistant Professor, MPSTME CTF
2. Prof. Tushar C. Patil, Assistant Professor, MPSTME CTF

SVKM's NMIMS Student Coordinators for the activity:

1. Kunal Patil

2. **Ashvin Banjara**
3. **Vivek Patil**
4. **Rupesh Patil**
5. **Mokshvidya Ramole**

Number of student participants: DTT first year 47 students, DTT Second year 30 students and DTT III year 30 students (totalling 107 students) participated in the event, all 107 students were internal participants.

Number of faculty participants: 08 Faculties, 4 Staff

Number of External Participants, if any: NA

Expenditure Amount, if any: Nil.

Mode of session delivery: Offline

Background of the speakers / Judges / Mentors etc. (Brief Resume):

1. Mr. Amar Surve - DGM, ATE Group Ltd., Mumbai

He was completed his diploma from Veermata Jijabai Technological Institute, Mumbai in the year of 1999 and Bachelor of Engineering in Textiles from Amaravati University in the year 2002. He was around 22 years of experience in melt spinning and nonwovens industry. Currently he was working with A.T.E. Enterprises Pvt. Ltd, as a Deputy General Manager sale and handling Synthetic, Carpet and Nonwoven machinery division. Previously He was worked with organisations such as Oerlikon India, Autefa Solutions, Prime Geotextile and spearheaded many national and international projects in Egypt, Bangladesh, UAE, Germany, Turkey etc.

Report on the session with the key outcomes (1-2 pages):

Expert Talk: Technical Textiles - Future Trends in Synthetic Fibres, Carpets & Non-Wovens. An expert session arranged by the Institution's Innovation Council (IIC), hosted by MPSTME, Centre for Textile Functions with the SOBUS Centre of Excellence at NMIMS Shirpur. A strong emphasis on sustainability, high-performance functionalities like smart textiles and use of advanced fiber engineering make increased use of polymeric materials. The tailored applications across various industries like healthcare, construction, and automotive, makes possible the development of bio-based and biodegradable textile material for addressing the environmental concerns. Which offer the key trends for synthetic fibers, carpets, and non-woven in the future of technical textiles. Smart fibers: The creation of fibers with integrated

sensors and actuators to continuously monitor external factors and react accordingly, paving the way for wearable technology and intelligent apparel.

Future trends in technical carpets:

Functional carpets: Carpets designed for particular contexts, such as industrial and healthcare settings, that have integrated features including heat insulation, sound absorption, anti-static qualities, and air filtration capabilities.

Sustainable carpet backing: To reduce its impact on the environment, carpet backing made of recycled materials and bio-based polymers can be use.

3D printed carpets: Cutting-edge production processes, such as 3D printing, enable the creation of personalized carpet designs with precise functions.

Emerging trends in non-wovens:

Modern melt blown technology: The development of melt blown methods to create extremely effective filtering medium for use in air purification systems, medical applications, and personal protective equipment

Multi-functional non-wovens: Products having several uses, such as barrier protection, moisture absorption, and thermal insulation, are made by combining various non-woven technologies.

In partnership with AICTE, the Ministry of Education initiated the institution's Innovation Council initiative. This is the first joint event organized by the Centre for Textile Functions Shirpur and IIC MPSTME Shirpur. The event observed an overwhelming response from the students of MPSTME, Centre for Textile Functions Shirpur. This prestigious event was a 03-hour activity conducted by IIC MPSTME and IIC CTF. "Expert Talk" was started on September 26, 2024, with an initiation of the event, in which student poster presentation activities also conducted.

The distinguished guests who graced the event were Mr. Amar Surve - DGM, ATE Group Ltd., Mumbai and Dr. Vijay Shivankar, I/C Associate Dean, Centre for Textile Functions, Shirpur campus emphasised the latest trends in technical textile and their future prospectus. The faculty coordinators, Prof. Tushar Patil, Assistant Professor, MPSTME CTF, hosted the event and Dr. Tushar Shinde, Assistant Professor, MPSTME CTF coordinate to introduce the expert. Along with the team from SOBUS, Mr. Chetan Patil and Aditi Jain played a pivotal role in organising the event seamlessly.

Pitching of the ideas: NA

Awards and recognition:

Students were accordingly present his poster in front of the guest Mr. Amar Surve - DGM, ATE Group Ltd., Mumbai and Dr. Vijay Shivankar, I/C Associate Dean, Centre for Textile Functions, Shirpur campus. Before the concluding talk the name of winners were published and get prize from the guest Mr. Amar Surve - DGM, ATE Group Ltd., Mumbai and Dr. Vijay Shivankar, I/C Associate Dean, CTF Shirpur. In association with SOBUS centre of excellence at NMIMS Shirpur. These honours inspired others to acquire the technical skills required for enhancing the product quality and overall betterment.

Prize Winners:

- First Prize: Faran Kureshi
- Second Prize: Mokshvidya Ramole, Ravina Pawara & Muskan Kureshi.

Conclusion:

In conclusion, the occasion showcased a wide variety of creative and exciting concepts from technical textile. In addition to discussing the value of observation in the idea generation process, Mr. Amar Surve defined Future Trends in Synthetic Fibres, Carpets & Non-Wovens as a mindset that is centred on creating something new and offered his opinions on future opportunities in textile industries.

Glimpses of the event (4 photographs):

Expert Talk

Technical Textiles

Future Trends in Synthetic Fibres,
Carpets & Non-Wovens



26. 09. 2024



10 :15 am



Seminar Hall, C-Wing, MPTP Campus,
Shirpur

Mr. Amar Surve
DGM, ATE Group Ltd.,
Mumbai

Organised By
SVKM'S NMIMS, MPSTME
CENTRE FOR TEXTILE FUNCTIONS

Under the aegis of
Institution's Innovation Council (IIC), Ministry of Education Initiative







